

# Electronics Flux Remover Selection eGuide

Volume 1, Issue 4

## *Inside:*

- Flux Remover Choices
- 4 Easy Steps to Clean PCBs
- Identify & Remove: Common PCB Contaminants
- Flux Cleaning Pens for Spot-On Cleaning
- Easy Cleaner Selection: The Tools to Use
- Watch & Learn Videos
- FAQs, Tech Articles and more...



Add this link to your favorites for easy access any time!

MicroCare, LLC  
800.638.0125 | microcare.com

### Our Brands

**MicroCare   Stereze   Sticklers   MicroCare Medical**

# Flux Remover Choices

Download Selection Guide



## FLUX REMOVER Selection Guide



Compare our best selling electronics cleaners on two important characteristics: **SAFETY & CLEANING STRENGTH**

### NONFLAMMABLE Flux Removers

• FOR BETTER SAFETY



FLUX REMOVER	Best On	Cleaning Strength (Kb)	Plastic Safe	TriggerGrip™ Compatible	Odor	Drying Speed	VOC Content
<b>General Purpose Flux Remover C</b> MCC-FRC	No Clean / Rosin / Water Soluble	25 (Medium)	Test	✓	Low	Fast	590 g/L
<b>Universal</b> MCC-UFR10A	Rosin	34 (Medium)	Test	✓	Slight	Fast	59 g/L
<b>SuprClean™ Heavy Duty</b> MCC-SPR	Rosin	110 (Very Strong)	Not Likely	✓	Low	Fast	1,080 g/L
<b>PowerClean™ Lead-Free</b> MCC-PW210A	Lead-Free	115 (Very Strong)	Not Likely	✓	Low	Fast	747 g/L

### FLAMMABLE Flux Removers

• FOR LOWER COST



FLUX REMOVER	Best On	Cleaning Strength (Kb)	Plastic Safe	TriggerGrip™ Compatible	Odor	Drying Speed	VOC Content
<b>VeriClean™ No Clean</b> MCC-DC1	No Clean	18 (Mild)	Yes	✓	Slight	Fast	87 g/L
<b>IsoClean™ IPA-Based</b> MCC-BAC	No Clean / Rosin / Water Soluble	20 (Mild)	Yes	✓	Alcohol	Medium	785 g/L
<b>ProClean™ Alcohol-Enhanced</b> MCC-PRO	No Clean / Rosin / Water Soluble	45 (Medium)	Yes	✓	Alcohol	Slow	785 g/L
<b>UltraClean™ VOC-Free</b> MCC-VOC10A	No Clean / Lead Free	56 (Strong)	Test	✓	Low	Medium	0 g/L
<b>Slow Drying Citrus-Based</b> MCC-EC7M	No Clean / Rosin / Water Soluble	67 (Strong)	Not Likely	✓	Citrus	Slow	840 g/L
<b>Polar</b> MCC-PFR10A	No Clean / Rosin	72 (Strong)	Test	✓	Acetone	Slow	184 g/L

Learn More

# 4 Easy Steps to Clean PCBs

Download Infographic



## 4 EASY STEPS - Cleaning Printed Circuit Boards

PCBS NEED TO BE CLEAN TO PERFORM AS EXPECTED



### THE COST OF UNCLEAN COMPONENTS

- Rejects
- Scrapped boards and wasted product
- Production downtime for rework
- Returns and warranty claims



### THE HAZARDS OF DIRTY CIRCUIT BOARDS

- Poor soldering connections
- Dendrite growth
- Noise to the PCB
- Board Failure



### 4 STEPS TO CLEANING PCBs - WET, SCRUB, RINSE, DRY

1

#### **Wet**

WET RESIDUES  
WITH SOLVENT



2

#### **Scrub**

SCRUB WITH  
A BRUSH



3

#### **Rinse**

RINSE AWAY  
WITH SOLVENT



4

#### **Dry**

DRY WITH A  
WIPE OR AIR



**CLEANING PCBs AT THE LOWEST POSSIBLE COST IS EASIER THAN EVER.**

Microcare Has Both The Products And The Know-How To Get Your Circuit Boards  
Perfectly Clean In A Fast, Consistent, Safe And Cost-Effective Way.

# Identify & Remove: Common PCB Contaminants

See More Contaminants



Discover Perfectly Clean

## Common PCB Contaminants: Uncommonly Good Cleaning Solutions

### Match Your Cleaner to Your Contaminant

In today's world electronic components can be scarce. Fabricators need to make sure every PCB they produce is top quality and functioning without fault. Clean PCBs perform better and live longer, reducing the number of wasted boards going to the scrap pile. Match your cleaner to the PCB contaminant for the best cleaning results.



### WHITE RESIDUE

White residues are usually (but not always) salts, which are the "activators" in the fluxes. When these salts meet heat or other chemicals, white residues result and can corrode delicate circuits. Remove white residue with Alcohol-Enhanced Flux Remover – ProClean™ (#MCC-PRO), No-Clean Flux Remover – VeriClean™ (#MCC-DC1) or Lead-Free Flux Remover – PowerClean™ (#MCC-PW210A). ProClean™ Presaturated wipes are ideal for touch-ups. (#MCC-PROW).



### LEAD-FREE FLUXES & PASTES

Lead-free fluxes and pastes are soldered at higher temperatures and the residue becomes "cured" and hard to remove. You need real muscle for age-hardened lead-free fluxes. For best results, use Lead-Free Flux Remover – PowerClean™ (#MCC-PW210A).



### NO CLEAN FLUXES AND PASTES

Despite the name, many PCB fabricators choose to clean their no-clean fluxes. Especially higher performance boards used in medical, defense or aerospace applications. The No-Clean Flux Remover – VeriClean™ (#MCC-DC1) works great on "no clean" materials.





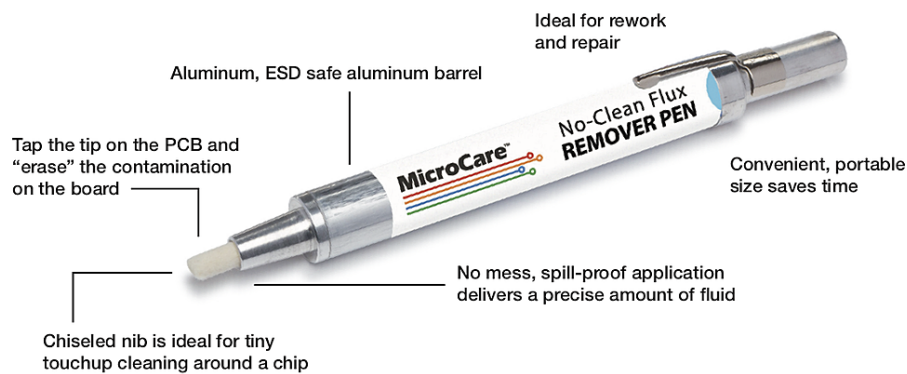
# Flux Cleaning Pens for Spot-On Cleaning

[Download Flyer](#)



Discover Perfectly Clean

## Flux Remover Cleaning Pens Deliver Spot-On Cleaning



### NO CLEAN FLUX REMOVER Cleaning Pen



#### IDEAL FOR SPOT-CLEANING NO-CLEAN FLUXES ON PCBs

- Best on no-clean fluxes, silicone oils, coatings, grease, adhesives and inks
- Mild cleaner with a low odor and fast drying time

### WATER SOLUBLE FLUX REMOVER Cleaning Pen



#### MAKES TOUCH-UP CLEANING OF OA FLUXES FAST AND EASY

- Cleans rosin, water based and no-clean fluxes and fresh chip bonder
- Medium strength cleaner with an alcohol odor and slow drying time

### RMA FLUX REMOVER Cleaning Pen



#### REMOVES THE TOUGHEST, HEAVY AGED & BURNED-ON SOLDER PASTES

- Good at removing polar and ionic activators in rosin, RA and RMA fluxes
- Strong cleaner with an acetone odor and a slow drying time

PRODUCT	PART NUMBER	PACKAGING	WEIGHT
No Clean Flux Remover Cleaning Pen	MCC-DC1PEN	1 Pen (10 mL)	.5 oz
Water Soluble Flux Remover Cleaning Pen	MCC-PROPEN	1 Pen (10 mL)	.5 oz
RMA Flux Remover Cleaning Pen	MCC-RMAPEN	1 Pen (10 mL)	.5 oz

[Learn More](#)

# Easy Cleaner Selection: The Tools to Use

[Go to Product Finder](#)

## Get Customized Product Recommendations Just for You


Tell us what you're cleaning, how you're cleaning and where you're located and we'll suggest a cleaning fluid that is just right.

Find the best option for your cleaning needs using four basic questions. The Product Finder narrows down your product options to get you started. However, critical cleaning involves many factors including chemical, thermodynamic, economic, ergonomic and regulatory requirements. Our applications specialists can audit your situation and make the best product recommendations for your particular cleaning challenge.


Back 1 2 3 4 5 Start Over ↻

What are you cleaning? PCBs and Other Electronics  
What is the contamination? Fluxes and Pastes Rosin  
How are you cleaning? By Hand, Manually  
Where are you located? Americas (North & South)  
Results


You Selected: PCBs and Other Electronics Fluxes and Pastes Rosin By Hand, Manually Americas (North & South)




General Purpose Flux Remover C



No Clean Flux Remover - VeriClean™



Universal Flux Remover



VOC-Free Flux Remover - UltraClean™

## MicroCare Does the Work for You

MicroCare partnered with the top flux and paste makers in the electronics industry. We brought their best-selling fluxes and pastes to our Critical Cleaning Lab and ran a study, with their assistance, to identify the specific MicroCare cleaners that will work with each specific flux or paste. All are verified to the IP Standard 610. The comprehensive test results and reports are available to help you choose which one is right for you. Contact a MicroCare Applications Experts for your customized, detailed report review.



ALPHA · INDIUM · KESTER · AIM · LOCTITE · KOKI

[Learn More](#)

# Watch & Learn Videos

Subscribe to our YouTube Channel and stay informed!

Subscribe

Early Cleaning  
Planning for  
**PCB**  
Manufacturing  
Success



Case Study  
#15

Cleaning  
Printed Circuit  
Boards



# Watch & Learn Videos



Subscribe to our YouTube Channel and stay informed!

Subscribe



## Tech Articles

Modern Electronics Require Updated Cleaning Methods

4 Types of PCB Contamination and How to Remove Them

Why Clean a No Clean Flux

## FAQs

What's Best for Cleaning Under Low Clearance SMT Components?

What's Wrong with Dip and Brush Cleaning Circuit Boards?

How Do I Clean Fiber Optics on Printed Circuit Boards?

What is a Kb Value and What Does it Mean?

Which Cleaner is Best at Removing Conformal Coatings?

[Share this eGuide Link](#)

©2021 MicroCare, LLC. All Rights Reserved.

**MicroCare, LLC**

800.638.0125 | [microcare.com](http://microcare.com)

**Our Brands**

***MicroCare***

***Stereze***

***Sticklers***

***MicroCare Medical***

©2021 MicroCare, LLC. All Rights Reserved.